

**HS4000TW Series**  
**High-Security Camera Enclosure**

**Installation/Operation Manual**

**C492M-D (1/96)**

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## Revision History

<b><u>Manual #</u></b>	<b><u>Date</u></b>	<b><u>Comments</u></b>
C492M	5/90	Original manual.
C492M	9/92	Rev. A. Cable entry information revised.
C492M-B	9/95	Rev. B. Revised to include wiring instructions for tamper switch and metric equivalents for specifications.
C492M-C	11/95	Rev. C. Revised to include updated tamper switch/bracket part numbers and exploded view diagram.
C492M-D	1/96	Rev. D. Revised to include tamper switch installation, specification description and new part numbers per ECO 95-397.
	11/96	Revised to include updated mechanical parts list and exploded assembly diagram.

# **INSTALLATION/OPERATION MANUAL HS4000TW SERIES HIGH-SECURITY CAMERA ENCLOSURES**

## **1.0 WARNINGS**

Prior to installation and use of this product, the following WARNINGS should be observed.

1. Installation and servicing should only be done by Qualified Service Personnel and conform to all Local codes.
2. Unless the unit is specifically marked as a NEMA Type 3, 3R, 3S, 4, 4X, 6, or 6P enclosure, it is designed for indoor use only and it must not be installed where exposed to rain and moisture.
3. Only use replacement parts recommended by Pelco.
4. The installation method and materials should be capable of supporting four (4) times the weight of the enclosure, pan/tilt, camera and lens combination.
5. The camera and lens combination shall not exceed 20 lbs (9.06 kg).

### **The product may bear the following marks:**

**This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit.**



**CAUTION:**  
TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT REMOVE COVER. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

**This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.**



**CAUTION:**  
RISK OF ELECTRIC SHOCK.  
DO NOT OPEN.

**Please thoroughly familiarize yourself with the information in this manual prior to installation and operation.**

## 2.0 SCOPE

The information within this manual covers the installation of the HS4000TW Series High Security Camera Enclosure.

Please thoroughly familiarize yourself with the information in this manual prior to installation and operation.

## 3.0 DESCRIPTION

The HS4000TW Series high security camera enclosure is designed for indoor “through the wall” installation for such applications as prisons, detention cells, etc., requiring maximum protection from vandalism.

The HS4000TW is available in three (3) configurations: tilt down, straight angle (HS4000TWS); tilt down, right angle (HS4000TWR); and tilt down, left angle (HS4000TWL). Designed to function either as a wall or ceiling enclosure, the wide heavy gauge mounting flange ensures secure mounting. Access to the interior can be gained through the front or rear with a specially designed tool, eliminating the possibility of the enclosure being opened by unauthorized personnel. In addition, a factory-installed tamper switch is mounted on the secured access cover.

Constructed of heavy gauge steel, the HS4000TW Series will accept most CCD cameras with fixed focal length lenses ranging in size from 4 mm to 75 mm.

## 3.1 MODELS

HS4000TWS	High security ceiling/wall enclosure with tilt down, straight viewing angle constructed of heavy gauge steel, designed for installations such as prisons, detention cells, etc., requiring maximum protection from vandalism. (UL)
HS4000TWR	Same as HS4000TWS except with tilt down, right viewing angle.
HS4000TWL	Same as HS4000TWS except with tilt down, left viewing angle. (UL)

## 4.0 SPECIFICATIONS

### MECHANICAL

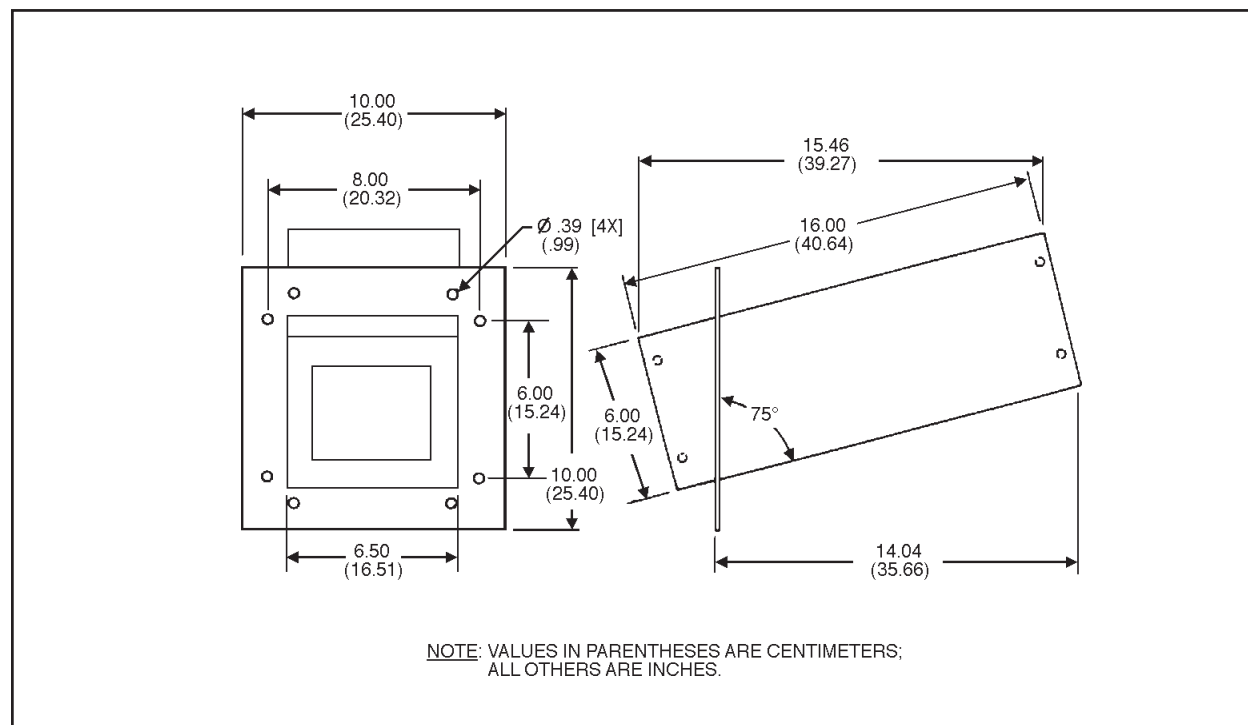
Window:	1/2" (1.27 cm) thick impact and abrasion resistant Lexan
Camera Mounting:	Multiple holes on camera sled
Maximum Camera/Lens Size:	Accepts camera/lens combinations (including BNC connector) up to: 15.0" L x 6.0" W x 4.75" H (38.10 cm x 15.24 cm x 12.06 cm)
Enclosure Mounting:	Eight (8) .390" diameter holes in 10" x 10" flange
Security:	Tamper-resistant screws N.O./N.C. switch contact on cover
Tamper Switch:	Plunger type door switch with "pull to cheat" feature. N.O./N.C. contacts clearly marked on body of switch. DM electrical rating: 10A, 125V. Plunger type with .20" (0.51 cm)

### ELECTRICAL

Cable Entry:	Two (2) cable knock-out holes on rear plate
Tamper Switch:	1/4" (.63 cm) quick connect. N.O./N.C. clearly marked on switch body. 10A, maximum switching current 125V, maximum switching voltage.

### GENERAL

Construction:	Seam welded 10 gauge .134" (0.34 cm) steel
Finish:	Poly vinyl powder coat
Dimensions:	See Figure 1
Environment:	Indoor; 32° to 120° F (0° to 48.89° C)
Unit Weight:	24 lbs (10.87 kg)



**Figure 1.** HS4000TW Series Dimension Drawing

## 5.0 INSTALLATION

Before installing the HS4000TW Series enclosure in a wall or ceiling, make certain that the mounting surface is able to support the full weight of the enclosure plus the camera and lens.

**NOTE:** The eight (8) fasteners required to secure the HS4000TW Series enclosure to a wall or ceiling (minimum 3/8" diameter recommended) are not supplied.

### 5.1 WALL/CEILING MOUNTING

To mount the enclosure to a wall or ceiling, perform the following steps:

1. Using the template supplied, mark the hole locations and area to be cut out.
2. Drill mounting holes and cut wall/ceiling for enclosure body. Note the angle of the enclosure in relation to the mounting flange and remove sufficient material behind the wall to clear.
3. Insert the enclosure into the opening and attach with the required fasteners.
4. Install conduit fittings (not supplied) into holes on rear access plate and run required wiring through fittings.
5. Access to the interior of the enclosure can be gained from either the front (window) or rear by removing the end plates. The end plates are secured by four (4) 1/4-20 "Tampruf" screws (four (4) each end). A special socket is provided (fits 1/4" square drive). The end plates are symmetrical and may be swapped end for end depending on the installation.
6. Remove the camera sled from the enclosure. Mount the camera/lens to the sled.
7. Make all appropriate connections (i.e., camera power, video (coax), and lens).
8. Replace the camera/lens/camera sled assembly back into the enclosure and tighten the 1/4-20 screw to secure the sled in place.
9. Replace the end plate(s) and check that all components clear. Secure with the 1/4-20 "Tampruf" screws provided.

### 5.2 TAMPER SWITCH INSTALLATION

The HS4000TW High-Security enclosures come standard from the factory with a tamper switch mounted on the secure access cover.

Should it become necessary to install a replacement switch, reference Figure 2 and perform the following steps:

1. Open the enclosure by removing the end plate from the desired "alarmed" opening.
2. Install the bracket so that the mounting studs go through the slots in the bracket.

**NOTE:** The slot in the bracket allows the switch to be used against either the 1/2" (1.27 cm) thick lexan window or the .134" (0.34 cm) thick metal plate.

3. If the switch is to be used against the metal plate, slide the bracket so that the studs are at the end of the slot that is furthest from the switch plunger.
4. If the switch is to be used against the Lexan window, slide the bracket so that the studs are at the end of the slot nearest the switch plunger.
5. When reinstalling the front/rear plate, position the plate flush with the end of the enclosure body.

### 5.3 TAMPER SWITCH WIRING

The tamper switch comes with both a "Normally Open" and a "Normally Closed" contact.

For a "Normally Open" circuit, use the "open" and "common" terminals; for a "Normally Closed" circuit, use the "closed" and "common" terminals.

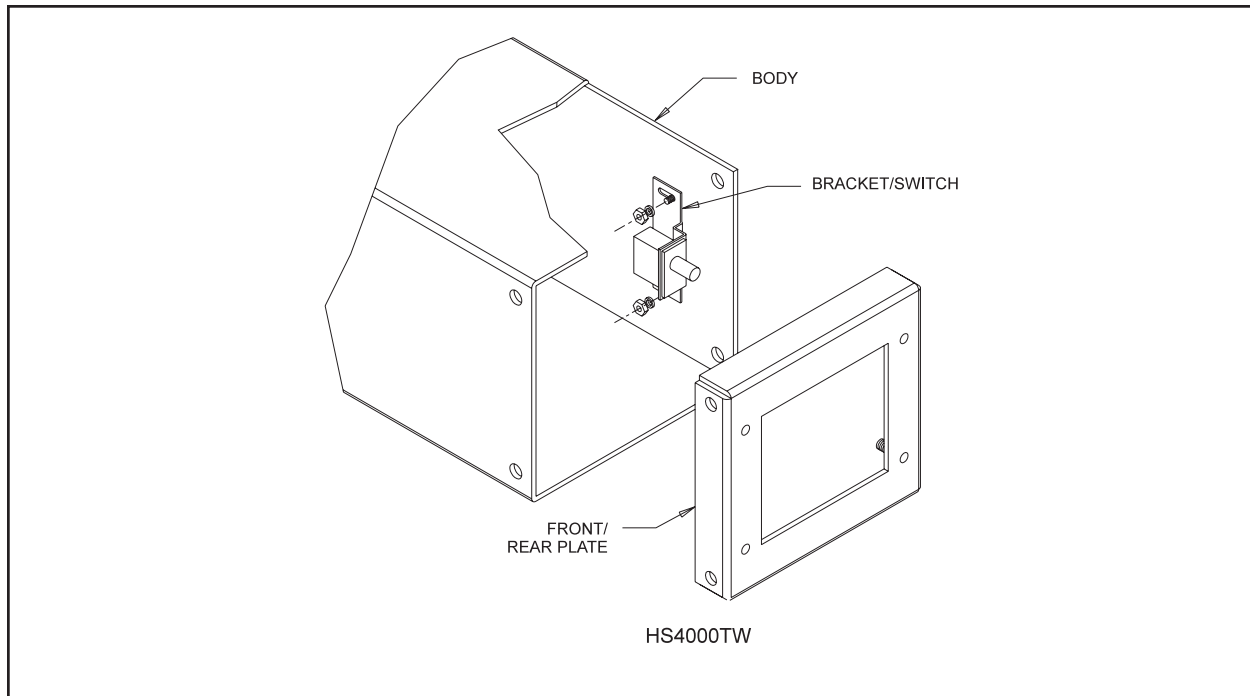
## 6.0 CARE AND MAINTENANCE

Maintenance performed at regularly scheduled intervals will help prolong the operational life and appearance of the equipment.

Clean the Lexan window with a mild non-abrasive detergent in water and a soft cloth regularly to help maintain picture clarity. For a heavily soiled window, use vinyl cleaner.

**NOTE:** Pelco offers a 24-hour, seven-day-a-week Technical Assistance Program (TAP) designed to assist any customer with a technical problem involving Pelco equipment whether it's the weekend or late at night. For technical assistance dial (800) 289-9100 and you will be connected to a Pelco TAP member who is trained to answer your questions.

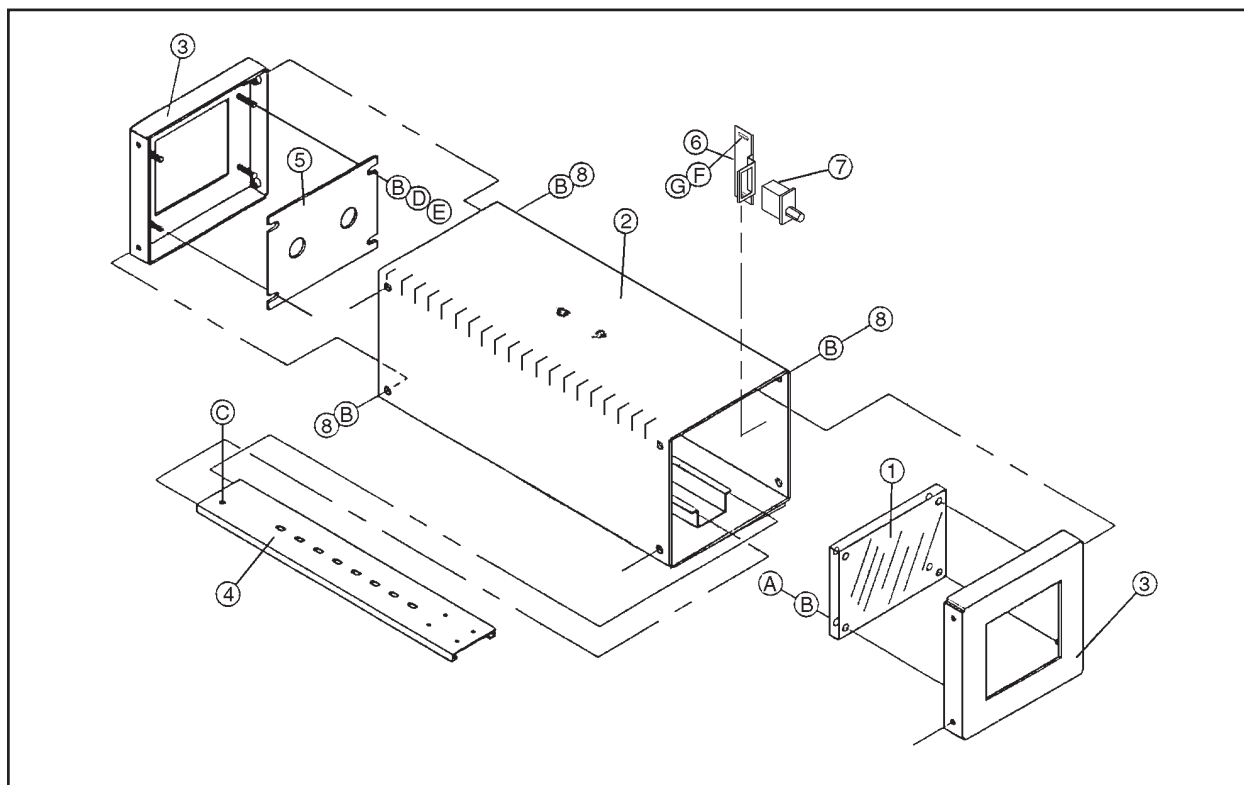
Pelco also guarantees one-day turnaround on any Pelco equipment sent in for repair. This includes warranty and non-warranty items. Refer to the section on "Warranty and Return Information" in this manual for the proper procedure.



**Figure 2.** HS4000TW Series Tamper Switch Installation

## 7.0 EXPLODED ASSEMBLY DIAGRAM

See Figure 3 for exploded assembly diagram of HS4000TW Series enclosure.

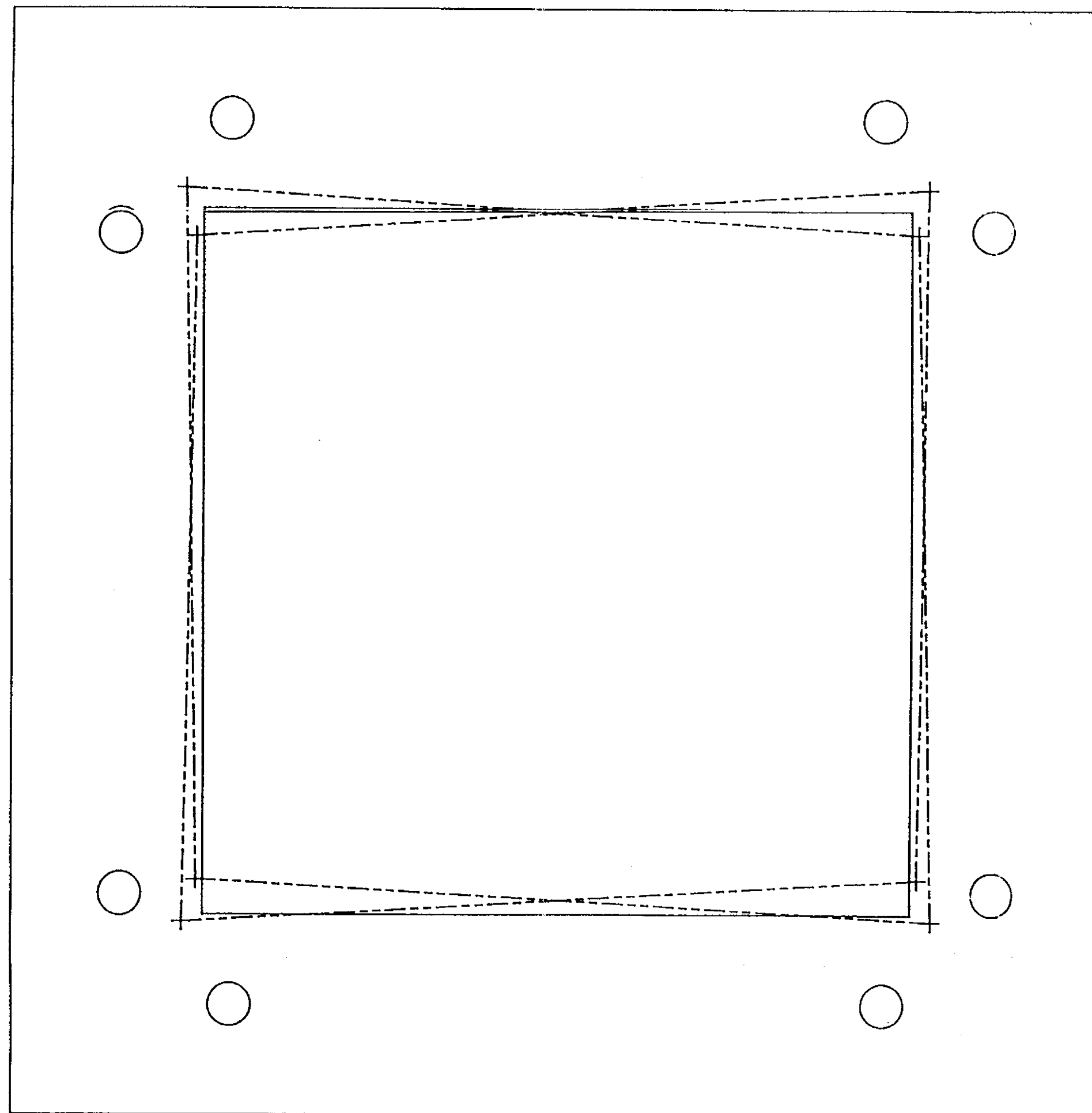


**Figure 3.** HS4000TW Series Enclosure Exploded Assembly Diagram

## 8.0 MECHANICAL PARTS LIST FOR HS4000TW SERIES ENCLOSURE

Item No.	Qty	Description	Part Number
1	1	Window, Lexan, 5.75" x 4" x 0.5", MR5	AH800010001
2	1	Weld Assembly (HS4000TWS) Weld Assembly (HS4000TWL) Weld Assembly (HS4000TWR)	HS4000STR1000WA HS4000LFT1000WA HS4000RHT1000WA
3	2	Plate, Front/Rear	HS40004003COMP
4	1	Sled	EH40144001COMP
5	1	Plate, Blank/Knock-Out	HS40004015COMP
6	2	Bracket, Switch, Break-In	HS30004113COMP
7	2	Switch, Tamper	SWI1DM401
8	8	Screw, 1/4-20x1/2", Rnd, Tampruf#10, SS	ZH1/4-20X.50SRT
9	1	Socket, Tampruf #10, 1/4" Drive (not shown)	ZTsocket10
A	4	1/4-20 Nut-Lock	ZH1/420NUTCHN
B	16	1/4" Flat Washer	ZH260X562X65C
C	1	1/4-20 x 1.25" Screw	ZH1/420X1.25CS
D	4	1/4" Split Lock Washer	ZH1/4LWSSL
E	4	1/4-20 Hex Nut	ZH1/4-20NUTCH
F	4	#6 Lock Washer	ZH6LWSIS
G	4	6-32 Hex Nut	ZH6-32NUTSH





HS4000TW Mounting Template

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## 9.0 WARRANTY AND RETURN INFORMATION

### WARRANTY

Pelco will repair or replace, without charge, any merchandise proved defective in material or workmanship for a period of one year after the date of shipment.

Exceptions to this warranty are as noted below:

- Five years on FT/FR8000 Series fiber optic products.
- Three years on Genex® Series products (multiplexers, server, and keyboard).
- Three years on Camclosure® and fixed camera models, except the CC3701H-2, CC3701H-2X, CC3751H-2, CC3651H-2X, MC3651H-2, and MC3651H-2X camera models, which have a five-year warranty.
- Two years on standard motorized or fixed focal length lenses.
- Two years on Legacy®, CM6700/CM6800/CM9700 Series matrix, and DF5/DF8 Series fixed dome products.
- Two years on Spectra®, Esprit®, ExSite™, and PS20 scanners, including when used in continuous motion applications.
- Two years on Esprit® and WW5700 Series window wiper (excluding wiper blades).
- Eighteen months on DX Series digital video recorders, NVR300 Series network video recorders, and Endura™ Series distributed network-based video products.
- One year (except video heads) on video cassette recorders (VCRs). Video heads will be covered for a period of six months.
- Six months on all pan and tilts, scanners or preset lenses used in continuous motion applications (that is, preset scan, tour and auto scan modes).

Pelco will warrant all replacement parts and repairs for 90 days from the date of Pelco shipment. All goods requiring warranty repair shall be sent freight prepaid to Pelco, Clovis, California. Repairs made necessary by reason of misuse, alteration, normal wear, or accident are not covered under this warranty.

Pelco assumes no risk and shall be subject to no liability for damages or loss resulting from the specific use or application made of the Products. Pelco's liability for any claim, whether based on breach of contract, negligence, infringement of any rights of any party or product liability, relating to the Products shall not exceed the price paid by the Dealer to Pelco for such Products. In no event will Pelco be liable for any special, incidental or consequential damages (including loss of use, loss of profit and claims of third parties) however caused, whether by the negligence of Pelco or otherwise.

The above warranty provides the Dealer with specific legal rights. The Dealer may also have additional rights, which are subject to variation from state to state.

If a warranty repair is required, the Dealer must contact Pelco at (800) 289-9100 or (559) 292-1981 to obtain a Repair Authorization number (RA), and provide the following information:

1. Model and serial number
2. Date of shipment, P.O. number, Sales Order number, or Pelco invoice number
3. Details of the defect or problem If there is a dispute regarding the warranty of a product which does not fall under the warranty conditions stated above, please include a written explanation with the product when returned.

Method of return shipment shall be the same or equal to the method by which the item was received by Pelco.

### RETURNS

In order to expedite parts returned to the factory for repair or credit, please call the factory at (800) 289-9100 or (559) 292-1981 to obtain an authorization number (CA number if returned for credit, and RA number if returned for repair).

All merchandise returned for credit may be subject to a 20% restocking and refurbishing charge.

Goods returned for repair or credit should be clearly identified with the assigned CA or RA number and freight should be prepaid. Ship to the appropriate address below.

If you are located within the continental U.S., Alaska, Hawaii or Puerto Rico, send goods to:

Service Department  
Pelco  
3500 Pelco Way  
Clovis, CA 93612-5699

If you are located outside the continental U.S., Alaska, Hawaii or Puerto Rico and are instructed to return goods to the USA, you may do one of the following:

If the goods are to be sent by a COURIER SERVICE, send the goods to:

Pelco  
3500 Pelco Way  
Clovis, CA 93612-5699 USA

If the goods are to be sent by a FREIGHT FORWARDER, send the goods to:

Pelco c/o Expeditors  
473 Eccles Avenue  
South San Francisco, CA 94080 USA  
Phone: 650-737-1700  
Fax: 650-737-0933



World Headquarters  
3500 Pelco Way  
Clovis, California 93612 USA

USA & Canada  
Tel: 800/289-9100  
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